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PHASED ARRAY RADARS
UNITED STATES

ARRAY-TYPE RADARS
USSR

1. PRODUCTION:

UNKNOWN

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2. RESEARCH & DEVELOPMENT:

HEN HOUSE, SARY-SHAGAN ANTIMISSILE TEST CENTER.

FUNCTION: THE SARY-SHAGAN HEN HOUSE IS BELIEVED TO BE THE R&D MODEL FOR TESTING A HIGH-POWER, COMPARATIVELY LOW FREQUENCY RADAR WHICH SCANS ELECTRONICALLY.

THE ANTENNA'S FACE IS ORIENTED ON 287 DEGREES, TOWARD THE KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER.

SIZE: THE STRUCTURE MEASURES 915'

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 AT ITS HIGHEST POINT.

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STATUS: THE HEN HOUSE WAS FIRST OB-
SERVED EXTERNALLY COMPLETE ON TALENT25
UNKNOWN3. DEPLOYMENT:25
A) DUAL HEN HOUSE, SKRUNDA, USSR.25
FUNCTION: THE HEN HOUSE IS BELIEVED25
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TO FUNCTION AS A BALLISTIC MISSILE
EARLY WARNING/SPACE TRACKING SYSTEM.

RANGE: UNKNOWN

S.

SIZE: THE ANTENNA BUILDING IS APPROX-
IMATELY 900' X 100'.

STATUS: THE DUAL HEN HOUSE NEAR SKRUNDA
WAS FIRST OBSERVED EXTERNALLY COMPLETE

HOWEVER IT IS NOT

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BELIEVED OPERATIONAL AS EVIDENCED BY THE
CONSIDERABLE QUANTITY OF CONSTRUCTION
MATERIALS AT THE SITE.

OTHER LOCATIONS: TWENTY-ONE HEN HOUSE
INSTALLATIONS HAVE BEEN OBSERVED AT 4
LOCATIONS IN THE USSR TO DATE AND ALL

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RESEMBLE THE ORIGINAL HEN HOUSE AT SARY-SHAGAN EXCEPT THAT THEY ARE BEING BUILT IN PAIRS WITH TWO 900-FT ANTENNA BUILDINGS, ONE ON EACH SIDE OF THE CONTROL BUILDING. THE FOUR DUAL HEN HOUSE INSTALLATIONS AT SARY-SHAGAN SITE 13 AND THE FOUR DUAL HEN HOUSE INSTALLATIONS NEAR ANGARSK, ARE ORIENTED GENERALLY EAST/WEST AND ARE PROBABLY FOR SATELLITE TRACKING, PERHAPS COMPRISING THE TOTAL SATELLITE TRACKING NET. THE DUAL HEN HOUSE INSTALLATIONS AT OLENEGORSK AND SKRUNDA ARE FACING GENERALLY NORTHWEST AND ARE PROBABLY A PART OF A BALLISTIC MISSILE EARLY WARNING SYSTEM (EMEWS), BUT COULD ALSO BE USED AS PART OF A SATELLITE TRACKING NET. IF A EMEWS IS CONTEMPLATED BY THE USSR, SEVERAL ADDITIONAL INSTALLATIONS WILL BE REQUIRED ON THE NORTHERN PERIPHERY.

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B) DOG HOUSE, NARO-FOMINSK, USSR.

FUNCTION: THE DOG HOUSE IS SUSPECTED TO BE A PHASED ARRAY RADAR AND AN INTEGRAL PART OF THE MOSCOW AREA AIM PROGRAM.

SIZE: 400' X 400' AND 340' IN HEIGHT.

THE SLANT HEIGHT IS

25X

ORIENTATION: THE ANTENNA FACES OF THE DOG HOUSE ARE ORIENTED NNW/SSE. THE ADJACENT OPERATIONAL AREA B (NOT SHOWN) INCLUDES TWO SUSPECT ANTENNAS ORIENTED THE SAME DIRECTIONS AS THE DOG HOUSE.

STATUS: THE DOG HOUSE IS THE ONLY FACILITY OF ITS KIND OBSERVED IN THE USSR TO DATE AND IT WAS FIRST REVEALED UNDER CONSTRUCTION

IT HAS

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BEEN OBSERVED SEVERAL TIMES ON BOTH KH AND ATTACHE PHOTOGRAPHY AND REMAINS UNDER CONSTRUCTION AT THE PRESENT TIME.

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UNKNOWN

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